

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended): A system for detecting discontinuously transmitted (DTX) frames comprising:

first means for receiving data transmitted in a plurality of frames;

second means for classifying each of the frames;

third means for analyzing the classification of a number of successive frames of the received data and providing a metric with respect thereto; and

fourth means, responsive to the metric, for determining if a frame is a ~~discontinuously transmitted~~ DTX frame, including reclassifying improperly classified erasure frames to be DTX frames.

2 (currently amended): The ~~invention~~ system of ~~[[C]]~~claim 1 wherein the second means includes means for error checking the frames.

3 (currently amended): The ~~invention~~ system of ~~[[C]]~~claim 2 wherein the means for error checking includes means for performing a cyclic redundancy check.

4 (currently amended): The ~~invention~~ system of ~~[[C]]~~claim 3 wherein the second means includes means for classifying the frames as good frames, erasure frames, or ~~discontinuous frames~~ DTX frames.

5 (currently amended): The ~~invention~~ system of ~~[[C]]~~claim 4 wherein the third means includes a filter.

6 (currently amended): The ~~invention~~ system of ~~[[C]]~~claim 5 further including means for assigning a numerical value to each of the frames based on the classification thereof.

7 (currently amended): The ~~invention~~ system of ~~[[C]]~~claim 6 wherein the filter is of the form  $Y_n = Y_{n-1} + X_n$  where 'n' is a frame number,  $Y_n$  is the filter output for a given frame n,  $Y_{n-1}$  is the filter output for a previous frame, and  $X_n$  is a stream of input frames.

8 (currently amended): The ~~invention~~ system of ~~[[C]]~~claim 7 further including means for setting a threshold for the output  $Y_n$  of the filter.

9 (currently amended): The ~~invention~~ system of ~~[[C]]~~claim 8 further including means for outputting an indication of a detection of a ~~discontinuous transmission~~ DTX frame when the filter output exceeds the threshold.

10 (cancel).

11 (currently amended): The ~~invention~~ system of ~~[[C]]~~claim ~~[[10]]~~ 8 wherein the fourth means ~~for reclassifying frames includes means for changing the frame classification~~ reclassifies an improperly classified erasure frame to be discontinuous a DTX frame if the frame was classified as an erasure frame and the output of the filter exceeds the threshold.

12 (currently amended): A communications system comprising:

a transmitter adapted to transmit frames of data, at least some of the frames being discontinuous transmission (DTX) frames;

a receiver adapted to receive and classify the transmitted frames;

a processor; and

software running on the processor for analyzing the classification of a number of successive frames of the received data and providing a metric with respect thereto, and for determining, in response to the metric, if a frame is a discontinuously transmitted frame, and for reclassifying improperly classified erasure frames to be DTX frames.

13 (currently amended): The ~~invention~~ communications system of ~~[[C]]~~claim 12 wherein the system includes an error checking mechanism.

14 (currently amended): The ~~invention~~ communications system of ~~[[C]]~~claim 13 wherein the error checking mechanism includes means for performing a cyclic redundancy check.

15 (currently amended): The ~~invention~~ communications system of ~~[[C]]~~claim 14 wherein the system includes means for classifying the frames as good frames, erasure frames, or ~~discontinuous~~ DTX frames.

16 (currently amended): The ~~invention~~ communications system of ~~[[C]]~~claim 15 wherein the software includes a filter.

17 (currently amended): The ~~invention~~ communications system of ~~[[C]]~~claim 16 wherein the software further includes means for assigning a numerical value to each of the frames based on the classification thereof.

18 (currently amended): The ~~invention~~ communications system of ~~[[C]]~~claim 17 wherein the filter is of the form  $Y_n = Y_{n-1} + X_n$  where 'n' is a frame number,  $Y_n$  is the filter output for a given frame n,  $Y_{n-1}$  is the filter output for a previous frame, and  $X_n$  is a stream of input frames.

19 (currently amended): The ~~invention~~ communications system of ~~[[C]]~~claim 18 further including means for setting a threshold for the output  $Y_n$  of the filter.

20 (currently amended): The ~~invention~~ communications system of ~~[[C]]~~claim 19 further including means for outputting an indication of a detection of a ~~discontinuous transmission~~ DTX frame when the filter output exceeds the threshold.

21 (cancel).

22 (currently amended): The ~~invention~~ communications system of ~~[[C]]~~claim ~~[[21]]~~ 20 wherein the ~~means for reclassifying frames includes means~~ software operates for changing the frame classification to ~~discontinuous~~ DTX if the frame was classified as erasure and the output of the filter exceeds the threshold.

23 (currently amended): A method for detecting discontinuous transmission (DTX) frames ~~including the steps of comprising:~~

receiving data transmitted in a plurality of frames;

classifying each of the frames;

analyzing the classification of a number of successive frames of the received data and providing a metric with respect thereto; and

determining, in response to the metric, if a frame is a discontinuous DTX frame, including reclassifying improperly classified erasure frames to be DTX frames.

24 (currently amended): The invention of ~~[[C]]~~claim 23 wherein ~~the step of said~~ classifying includes ~~the step of~~ error checking the frames.

25 (currently amended): The ~~invention~~ communications system of ~~[[C]]~~claim 24 wherein ~~the step of said~~ error checking includes ~~the step of~~ performing a cyclic redundancy check.

26 (currently amended): The ~~invention~~ communications system of ~~[[C]]~~claim 25 wherein ~~the step of said~~ classifying includes ~~the step of~~ classifying the frames as good frames, erasure frames, or discontinuous DTX frames.

27 (currently amended): The ~~invention~~ communications system of ~~[[C]]~~claim 26 further including ~~the step of~~ assigning a numerical value to each of the frames based on the classification thereof.

28 (currently amended): The ~~invention~~ communications system of ~~[[C]]~~claim 27 wherein ~~the step of said~~ classifying includes ~~the step of~~ computing a filter output:  $Y_n = Y_{n-1} + X_n$  where 'n' is a frame number,  $Y_n$  is the filter output for a given frame n,  $Y_{n-1}$  is the filter output for a previous frame, and  $X_n$  is a stream of input frames.

29 (currently amended): The ~~invention~~ communications system of ~~[[C]]~~claim 28 further including ~~the step of~~ setting a threshold for the output  $Y_n$ .

30 (currently amended): The ~~invention~~ communications system of [[C]]claim 29 further including ~~the step of~~ outputting an indication of a detection of a ~~discontinuous transmission~~ DTX frame when the filter output exceeds the threshold.

31 (cancel).

32 (currently amended): The ~~invention~~ communications system of [[C]]claim [[31]] 30 wherein ~~the step of~~ said reclassifying improperly classified erasure frames includes ~~the step of~~ changing the frame classification to discontinuous if the frame was classified as erasure and the output of the filter exceeds the threshold.